

Atlantic Resources Corporation Site and Horseshoe Road Drum Dump Portion of the Horseshoe Road Complex Sites – Operable Unit No. 2

Sayreville, New Jersey

September 2014



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Moh Mohiuddin, PhD, PE, BCEE, LSRP Project Manager

## Health and Safety Closeout Report

Atlantic Resources Corporation Site and Horseshoe Road Drum Dump Portion of the Horseshoe Road Complex Sites – Operable Unit 2

Sayreville, New Jersey

Prepared for:
Operable Unit 2 (OU-2) Settling Work
Defendants

Prepared by:
ARCADIS U.S., Inc.
105 Fieldcrest Avenue, Suite 203
Edison
New Jersey 08837
Tel 732 225 5061
Fax 732 225 5067

Our Ref.: NJ000514.0007

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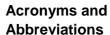
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#### **Acronyms and Abbreviations**

ACGIH American Conference of Governmental Industrial Hygienists

ARC Atlantic Resources Corporation

CEI Creamer Environmental, Inc.

COCs contaminants of concern

DCA dichloroethene

eV electrovolt

FHSHB Field Health and Safety Handbook

HASP Health and Safety Plan

HRDD Horseshoe Road Drum Dump

HSCP Health and Safety Contingency Plan

JSA Job Safety Analysis

L/min liter(s) per minute

OSHA Occupational Safety and Health Administration

OU-2 Operable Unit 2

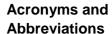
PAHs polycyclic aromatic hydrocarbons

PAMP Perimeter Air Monitoring Plan

PCBs polychlorinated biphenyls

PCE tetrachloroethene

PEL Permissible Exposure Limit





PID photo-ionization detector

PM<sub>10</sub> particulate matter less than 10 microns in size

PPE personal protective equipment

RAR Remedial Action Report

Sites Atlantic Resources Corporation and Horseshoe Road Drum Dump portion of

the Horseshoe Road Complex sites located in Sayreville, New Jersey

SVOC semi-volatile organic compound

SWD Settling Work Defendant

TCB trichlorobenzene

TCE trichloroethene

TIP Task Improvement Process

TLV Threshold Limit Value

USEPA United States Environmental Protection Agency

VOCs volatile organic compounds



ARC Site and HRDD Site Sayreville, New Jersey

#### 1. Work Summary

ARCADIS U.S., Inc. (ARCADIS), on behalf of the Operable Unit 2 (OU-2) Settling Work Defendants (SWDs) has prepared this report to document health and safety operations and performance during the remediation of surface and subsurface soils at the Atlantic Resources Corporation (ARC) site and Horseshoe Road Drum Dump (HRDD) portion of the Horseshoe Road Complex Sites (collectively, the Sites), located in Sayreville, New Jersey.

Construction activities at the Sites included excavation and disposal of approximately 123,000 tons of impacted soils, removal and disposal of 1,800 gallons of aqueous waste, and treatment and discharge of 0.737 million gallons of water from dewatering and decontamination activities. Elements of the remedial design for the Sites of particular health and safety importance included the following:

- The presence of two large sewer forcemains transecting the Sites, which
  necessitated construction of a temporary bridge to cross the forcemains and
  installation of trench boxes to accomplish deep excavation in the vicinity of the
  forcemains
- The presence of railroad tracks at the eastern boundary of the ARC site, which
  necessitated the installation of sheet piling, relocation of electrical poles and wires,
  and excavation utilizing steep slopes to accomplish deep excavations in the vicinity
  of the railroad tracks

ARCADIS was the prime contractor during the ARC and HRDD OU-2 remedial actions and retained Creamer Environmental Inc. (CEI) as the lead subcontractor. Various third-tier subcontractors worked on site with specializations including: railcar management, backfill delivery, fence installations, clearing and grubbing, electrical service and transmission installations, and other trades. Man-hours worked during the construction totaled 49,500 hours.



ARC Site and HRDD Site Sayreville, New Jersey

#### 2. Elements of Health and Safety Program

#### 2.1 ARCADIS Health and Safety Management System

The ARCADIS Health and Safety Management System is a principle- and behavior-based system that relies on employees and supervisors to assess risks prior to and at the time of the work and determine the proper controls before proceeding with the activities. This philosophy of continually assessing risks and planning work to employ appropriate controls is re-emphasized through a corporate safety culture that includes training on behavior-based methods.

#### 2.2 Health and Safety Plans

The ARCADIS Health and Safety Contingency Plan (HSCP), dated June 2013, was the primary reference for site-specific health and safety conditions and requirements. A summary presentation of the HSCP was provided to all site personnel as a component of site orientation training. There were two addenda to the HSCP. Addendum #01, dated November 1, 2013, addressed discovery of mercury during excavation in Excavation Cell K. Addendum #02, also dated November 1, 2013, updated the site behavior-based safety and task improvement process (Section 14 of the HSCP).

The CEI Health and Safety Plan (CEI-HASP), dated April 8, 2013, was the primary health and safety guidance for CEI and its subcontractors. This HASP was reviewed and approved by ARCADIS prior to implementation of construction activities. Addendum 1 to the CEI HASP was implemented on September 25, 2013 to address elevated concentrations of volatile organic compounds (VOCs) in the work zone. Addendum 2 to the CEI HASP was implemented on October 31, 2013 to address the discovery of mercury during excavation in Excavation Cell K.

The following sections describe components of the ARCADIS HSCP.

#### 2.2.1 Job Safety Analyses

ARCADIS work planning included the preparation of Job Safety Analyses (JSAs) to identify risks and procedures to control risks during common work activities anticipated during construction at the Sites. The JSAs were reviewed and periodically updated in the field to identify additional risks and/or control measures.

# Health and Safety Closeout Report

ARC Site and HRDD Site Sayreville, New Jersey

#### 2.2.2 Health and Safety Standards

The following ARCADIS Health and Safety Standards were included in the HSCP and provided to CEI to ensure that practices were consistent with ARCADIS standards.

- ARC HSCS005 Excavation and Trenching
- ARC HSCS006 Heavy and Mechanized Equipment
- ARC HSCS013 Hot Work Standard
- ARC HSFS004 Control of Hazardous Energy (Lockout/Tagout)
- ARC HSFS006 Electrical Safety Standard
- ARC HSFS007 Lead
- ARC HSFS010 Health and Safety Plan Standard
- ARC HSFS012 Hazardous Waste Operation and Emergency Response
- ARC HSFS019 Utility Clearance
- ARC HSGE001 Tailgate Health and Safety Meetings
- ARC HSGE004 First Aid/CPR
- ARC HSGE007 Hazard Communication
- ARC HSGE008 Injury and Illness Prevention Program
- ARC HSGE009 Stop Work Authority
- ARC HSGE010 Medical Monitoring Program
- ARC HSGE013 OSHA and Other Regulatory Agency Inspections



ARC Site and HRDD Site Sayreville, New Jersey

- ARC HSGE015 Personal Protective Equipment
- ARC HSGE017 Respiratory Protection
- ARC HSGE024 Motor Vehicle Safety Program
- ARC HSIH003 Benzene
- ARC HSIG008 Hearing Conservation Health & Safety Standard
- ARC HSIG013 Heat Stress Prevention
- ARC HSSP0002 Railroad Workplace H&S Standard

#### 2.2.3 Field Health and Safety Handbook

The Field Health and Safety Handbook (FHSHB) is an ARCADIS document containing information about topic-specific H&S requirements for the field. This handbook contains relevant general topics and is used as part of the overall H&S program. To aid in the consistency of the H&S program the handbook was used as an informational source in conjunction with the HSCP. The following handbook sections were required reading for ARCADIS site managers for this project:

- III.G Site Security, Work Zones and Decontamination for HAZWOPER Sites
- III.LL Traffic Control
- IV.D Excavation/Trenching
- IV.E Heavy Equipment

#### 2.3 Task Improvement Processes

ARCADIS identified specific tasks to target for Task Improvement Process (TIP) evaluations in Addendum #02 to the ARCADIS HSCP. ARCADIS planned to complete 64 to 94 TIPs during the course of this project in accordance with Addendum #02 of the HSCP. At completion of construction activities, ARCADIS had completed 76 TIPs, for a rate of 1 TIP per 650 work hours or 1.5 TIPs per week.



ARC Site and HRDD Site Sayreville, New Jersey

These TIPs are retained in the ARCADIS HSMS database, which allows findings to be shared throughout the company for continuous improvement.

**Table 1** identifies tasks targeted for TIP evaluations and the proposed number of TIPs to be performed for each task.

#### 2.4 Incident and Near Miss Reporting

ARCADIS completed six near miss reports and three incident reports during the course of the project. CEI completed one incident report. Near miss and incident reports are summarized in **Table 2**.



ARC Site and HRDD Site Sayreville, New Jersey

#### 3. Inspections and Reporting

Implementation of the HSCP and CEI-HASP included the following inspection and reporting activities.

#### 3.1 Inspections

Regular inspections were performed in accordance with the schedule below:

- Routine (daily): work areas and activities, open excavations and sidewall stability, heavy equipment, personal protective equipment (PPE), air monitoring equipment
- Weekly: rigging and lifting equipment, ladders, perimeter air monitoring stations, motor vehicles
- Monthly: fire extinguishers, respirators, supplied-air equipment, and emergency supplies

#### 3.2 Reporting

The following reports pertaining to H&S are included in the project records presented in the Remedial Action Report (RAR) or the SharePoint site used for data exchange during project implementation.

- Daily Construction Activity Reports
- Daily Construction Quality Assurance Reports
- Weekly Air Monitoring Reports, including:
  - Meteorology
  - Work zone air monitoring
  - Real-time perimeter air monitoring
- Weekly Progress Reports
- Vibratory Hammer Noise Assessment
- Health and Safety Closeout Report



ARC Site and HRDD Site Sayreville, New Jersey

#### 4. Health and Safety Monitoring

#### 4.1 Contaminants of Concern

Pre-design investigations identified the following classes of contaminants of concern (COCs) at the sites:

- <u>VOCs</u>: benzene, chlorobenzene, chloroform, 1,2-dichloroethane (1,2-DCA), methylene chloride, tetrachloroethene (PCE), toluene, trichloroethene (TCE), xylenes
- <u>Semi-volatile organic compounds (SVOCs)</u>: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene hexachloroethane, indeno(1,2,3-cd)pyrene, 1,2,4-trichlorobenzene (1,2,4-TCB)
- Pesticides: aldrin, dieldrin, methoxychlor
- Polychlorinated biphenyls
- Metals: antimony, arsenic

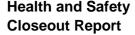
In addition to the above COCs, lead and mercury were identified during waste characterization sampling.

#### 4.2 Work Zone Air Monitoring

#### 4.2.1 Work Zone Volatile Organic Compound Monitoring

VOCs were monitored throughout the course of this project with portable photoionization detectors (PIDs) equipped with 10.6 electrovolt (eV) lamps. The instruments were calibrated with isobutylene span gas, providing a response factor appropriate for the VOCs of concern. In general, elevated PID readings corresponded with odors detected by site personnel. Additional air monitoring for specific VOCs (benzene, chloroform, and trichloroethene) was performed with Draeger-brand colorimetric detector tubes.

Work zone PID and Draeger tube readings for benzene and chloroform reached action level concentrations inside the exclusion zone work areas on 35 occasions. Responses to action level detections included the use of suppressant foam and/or





ARC Site and HRDD Site Sayreville, New Jersey

upgrade to Level B or Level C PPE. A summary of work zone action level exceedances for VOCs and corresponding response actions is presented in **Table 3**.

#### 4.2.2 Work Zone Particulate Monitoring

Work zone particulate levels were measured with a particulate/aerosol monitor. There were no action level exceedances in work zones for particulates during the course of the project.

#### 4.2.3 Work Zone Air Sampling for Volatile Organic Compounds

Time-integrated air samples were collected from within the work zone in response to benzene and chloroform action level exceedances detected with Draeger tubes. The air samples were collected with 3M 3500 passive sample badges worn by laborers and equipment operators working inside Level C and Level B exclusion zones on August 14, 2013 (Excavation Cell I) and September 30, 2013 (Excavation Cell K), respectively. Parameters monitored included: benzene, chlorobenzene, chloroform, ethylbenzene, methylene chloride, PCE, toluene, 1,2,4-TCB, and xylenes. The analytical results from these samples indicate that concentrations of all compounds were well below site action levels, American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs) and Occupational Safety and Health Administration (OSHA) Permissible Exposure Levels (PELs).

The analytical reports for this sampling are included as **Attachment 1**.

#### 4.2.4 Work Zone Air Sampling for Lead

Time-integrated air samples were collected for lead exposure during excavation of Waste Area 9 of the ARC site on July 31, 2013. Samples were collected and analyzed in accordance with OSHA Method ID-125G, which consists of air being pumped through a filter cassette at a rate of 2 liters per minute (L/min) and the subsequent digestion an analysis of material retained on the filter cassette. Results from the two air samples collected on this date indicated that the exposure levels of individuals most at risk were at least two orders of magnitude below the OSHA PEL for lead. A copy of the analytical report is included in **Attachment 1**.



ARC Site and HRDD Site Sayreville, New Jersey

#### 4.3 Perimeter Air Monitoring Program

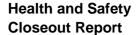
The perimeter air monitoring program employed semi-mobile air monitoring stations located around the site perimeter to collect real-time particulate matter and VOC data as described in the site Perimeter Air Monitoring Plan (PAMP), dated June 2013. There were three modifications of the PAMP throughout the OU-2 remedial activities, which are summarized below.

- Following initial air sample collection in May 2013, saturation samplers were substituted in place of reference method samplers for the collection of polychlorinated biphenyl (PCB by U.S. Environmental Protection Agency [USEPA] Method TO-4A) as well as polynuclear aromatic hydrocarbons (PAHs) and pesticides (USEPA Method TO-13A). This modification was approved for implementation by USEPA on May 23, 2013.
- 2. The number of perimeter air monitoring stations was reduced from four to three stations as the size of the excavation was decreased. This modification was approved on January 8, 2014.
- Perimeter air monitoring stations were removed following the completion of all
  excavation work. Upon removal of the perimeter air stations, perimeter air was
  monitored by mobile PID and dust monitors. This modification also included
  cessation of perimeter air sample collection. This modification was approved on
  April 30, 2014.

#### 4.3.1 Real-time Perimeter Air Monitoring

The perimeter air monitoring stations operated from May 17, 2013 until May 12, 2014. Data from the real-time instruments was transferred to a data acquisition program, which sent alarm notifications to site personnel for high-level concentrations of particulate matter less than ten microns in size ( $PM_{10}$ ) and VOCs. This programmable alarm system allowed for select personnel to receive early warnings of elevated readings (condition yellow and orange) prior to exceedance of action levels established in the PAMP. This system was effective at providing adequate time for personnel to investigate site conditions and implement controls to avert potential exceedances of site action levels.

There were no perimeter air monitoring exceedances for VOCs resultant from migration of site contaminants throughout the course of OU-2 remedial actions. All documented exceedances of VOC action levels were the result of instrument error and were addressed through instrument maintenance or change-out.





ARC Site and HRDD Site Sayreville, New Jersey

Throughout the OU-2 remedial activities, there were no perimeter air monitoring exceedances for  $PM_{10}$  resultant from migration of site contaminants. However, on three occasions, other site operations that caused alarm level conditions for  $PM_{10}$ . These site operations included spreading of lime, seeding, and welding fumes. In each instance, the exceedance was mitigated in less than 30 minutes by modifying the site operations that triggered the high-level  $PM_{10}$  alarm. In addition to the above exceedances due to site operations, alarm level conditions for  $PM_{10}$  were also triggered by instrument error, fog, fouling of sampling equipment by insects and vegetation, emissions from the adjacent steel mill, and a nearby forest fire that affected regional air quality.

A summary of action level exceedances for perimeter air monitoring stations is presented in **Table 4**. The locations of perimeter air monitoring and sampling locations throughout the project are shown in **Attachment 2**.

#### 4.3.2 Perimeter Air Sampling

Time-integrated air samples were collected to establish background levels, and monthly thereafter, from each perimeter air monitoring station and analyzed for VOCs, SVOCs, PCBs, pesticides, and PM<sub>10</sub> as described in the PAMP and aforementioned modifications to the PAMP. Analytical results indicate that there were no exceedances of action levels for any parameters throughout the project. All minimum detection limits were below the action levels by at least one order of magnitude, including samples collected with saturation samplers instead of reference method samplers.

The results of VOCs analyses were consistent with real-time measurements from perimeter air station PIDs, and chemical species detected in the VOC analyses were consistent with the species detected from work zone air sampling. PM<sub>10</sub> analytical results were also consistent with observations from the real-time measurements from particulate/aerosol monitors at the perimeter air stations.

Laboratory analytical reports for perimeter air sampling are included in **Appendix A** to the Remedial Action Report.



ARC Site and HRDD Site Sayreville, New Jersey

#### 5. Health and Safety Audit

An ARCADIS corporate health and safety team conducted an assessment on October 2, 2013. The assessment was completed by Mr. Denis Balcer, Corporate Health and Safety Manager, and Mr. Andrew McDonald, Corporate Health and Safety Specialist. A summary of the audit findings, action items, and response actions implemented by site personnel is included as **Attachment 3**.



**Tables** 

Table 1. Proposed Task Improvement Process Evaluations ARC and HRDD Sites, Sayreville, New Jersey

Identified Task for TIP	Proposed Number of TIPs
Mobilization	3
Site Preparation	3
Site Security Inspections	2
Demolition and Removal of Existing Site Features	3
Relocation and Installation of Water Treatment System	2
Excavation Dewatering	2
Operation of Water Treatment System	2
Surveying	2
Compaction Testing	2
Excavation and Removal of Impacted Soil	4
Perimeter and Work Zone Air Monitoring	3
Temporary Bridge Installation and Removal	2
Temporary Sheeting Installation and Removal	2
Installation of electric service to WWTP	2
Post-Excavation Sampling	3
Cover and Uncover Stockpiles	2
Line Rail Cars	2
Load Rail Cars	3
Backfilling and Restoration	3
Tree Planting	1
Decontamination	3
Demobilization	3
Various (may include any of the above tasks as well as miscellaneous tasks, new tasks or sub-tasks that arise through the course of the project)	10 to 30
Total Proposed TIPS	64 to 94

Table 2. Incident and Near Miss Reporting ARC and HRDD Sites, Sayreville, New Jersey

Date	Incident Description	Incident Classification
7/2/2013	Laceration	Reportable injury
10/23/2013	Hydraulic fluid leak	Spill Incident
2/21/2014	Muscle strain	Reportable Injury
4/17/2014	Motor vehicle accident	Property damage
10/14/2013	Struck head on solar panel	Near Miss
11/22/2013	Near collision with heavy equipment	Near Miss
1/24/2014	Front tire on the off-road dump truck went off the ramp to the bridge	Near Miss
2/19/2014	Sides of two backfill delivery trucks grazed each other when pulling away from drop site	Near Miss
3/10/2014	Backfill truck observed driving towards overhead lines with truck bed in the raised position.	Near Miss
5/5/2014	Abrasion to right hand while handling bricks without work gloves	Near Miss

Table 3. Summary of Work Zone VOC Action Level Exceedances and Response Actions ARC and HRDD Sites, Sayreville, New Jersey

Date	Description	Level of Protection/Response Actions
8/9/2013	Excavation in Slide Rail Box 11/Cell I	Use of suppressant foam
8/12/2013	Excavation in Slide Rail Box 11/Cell I	Use of suppressant foam
8/13/2013	Excavation in Slide Rail Box 11/Cell I	Use of suppressant foam
8/14/2013	Excavation in Slide Rail Box 11/Cell I	Use of suppressant foam
8/15/2013	Excavation in Slide Rail Box 11/Cell I	Use of suppressant foam
8/16/2013	Excavation in Slide Rail Box 11/Cell I	Use of suppressant foam
8/19/2013	Excavation in Slide Rail Box 11/Cell I	Use of suppressant foam
8/20/2013	Excavation in Slide Rail Box 11/Cell I	Use of suppressant foam
8/21/2013	Excavation in Slide Rail Boxes 11&12/Cell I	Allow material to ventilate before handling
8/22/2013	Excavation in Slide Rail Box 12/Cell I	Allow material to ventilate before handling
8/23/2013	Excavation in Slide Rail Box 12/Cell I	Allow material to ventilate before handling
9/17/2013	Excavation in Cell O	Upgrade to Level C PPE
9/19/2013	Excavation in Cell O	Upgrade to Level C PPE
9/30/2013	Excavation of drums from Cell K	Upgrade to Level B PPE, use of suppressant foam
10/3/2013	Excavation of drums from Cell K	Upgrade to Level C PPE, Use of suppressant foam
10/4/2013	Excavation of drums from Cell K	Upgrade to Level C PPE, Use of suppressant foam
10/7/2013	Excavation in Cell K	Upgrade to Level C PPE, Use of suppressant foam
10/8/2013	Excavation in Cell K	Upgrade to Level C PPE, Use of suppressant foam
10/9/2013	Excavation in Cell K	Upgrade to Level C PPE, Use of suppressant foam
10/10/2013	Excavation in Cell K	Use of suppressant foam
10/11/2013	Excavation in Cell K	Use of suppressant foam
10/14/2013	Excavation in Cell K	Upgrade to Level C PPE, Use of suppressant foam
10/15/2013	Excavation in Cell K	Upgrade to Level C PPE, Use of suppressant foam
10/16/2013	Excavation in Cell K	Upgrade to Level C PPE, Use of suppressant foam
10/17/2013	Excavation in Cell K	Upgrade to Level C PPE, Use of suppressant foam
10/18/2013	Excavation in Cell K	Use of suppressant foam
10/21/2013	Excavation in Cell K	Use of suppressant foam
10/22/2013	Excavation in Cell K	Use of suppressant foam
10/23/2013	Excavation in Cell K	Use of suppressant foam
10/25/2013	Excavation in Cell K	Use of suppressant foam
10/28/2013	Excavation in Cell K	Use of suppressant foam
10/29/2013	Excavation in Cell K	Use of suppressant foam
10/31/2013	Excavation in Cell K	Use of suppressant foam
11/4/2013	Removal of mercury waste	Upgrade to Level B/C PPE
11/14/2013	Removal of UST	Upgrade to Level B PPE, use of suppressant foam
4/2/2014	Excavation in Cell AD	Use of suppressant foam

Table 4. Summary of Perimeter Air Monitoring Action Level Exceedances ARC and HRDD Sites, Sayreville, New Jersey

Date	Criteria Exceeded	Cause
6/27/2013	5-minute PM10	Elevated background from smog/fog conditions in morning
7/17/2013	5-minute PM10	Elevated background from smog/fog conditions in morning
7/19/2013	5-minute PM10	Elevated background from smog/fog conditions in morning
8/8/2013	5-minute PM10	Emissions from steel mill impacting south station
8/21/2013	5-minute PM10	Instrument error during start-up
9/10/2013	5-minute PM10	Elevated background from smog/fog conditions in morning
9/11/2013	5-minute PM10	Elevated background from smog/fog conditions in morning
9/12/2013	5-minute PM10	Elevated background from smog/fog conditions in morning
9/18/2013	5-minute PM10	Application of lime into backfill
9/26/2013	5-minute PM10	Insects and vegetation drawn into sample air stream.
10/1/2013	5-minute PM10	Exceedance due to application of hydroseed on top soil
10/18/2013	15-minute VOC	Instrument error during morning start up
10/25/2013	15-minute VOC	Instrument error during morning start up
10/28/2013	5-minute PM10	Instrument error during morning start up
11/13/2013	15-minute VOC	Instrument error during morning start up
12/3/2013	5-minute PM10	Elevated background from fog conditions in morning
12/4/2013	5-minute PM10	Elevated background from fog conditions in morning
1/10/2014	5-minute PM10	Elevated background from fog conditions in morning
1/30/2014	5-minute PM10	Emissions from steel mill impacting south station
2/21/2014	5-minute PM10	Elevated background from fog conditions in morning
2/25/2014	5-minute PM10	Instrument error during morning start up
4/7/2014	5-minute PM10	Elevated background conditions for northern NJ and NYC due to forest fire in Wharton State Forest
4/8/2014	5-minute PM10	Alarm level conditions due to welding fumes from site operations
4/15/2013	15-minute VOC	Instrument error during morning start up



### **Attachment 1**

Work Zone Air Sampling Analytical Results



Mr. Gary Kowalski Creamer Environmental Inc. 400 Horseshoe Rd Sayreville, NJ 08872 August 14, 2013

DOH ELAP# 11626 AIHA # 100324 Account# 20344

Login# L297142

Dear Mr. Kowalski:

Enclosed are the analytical results for the samples received by our laboratory on August 08, 2013. All test results meet the quality control requirements of AIHA and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact John Bailey at (888) 432-5227, if you would like any additional information regarding this report.

Thank you for using Galson Laboratories.

Mary & Unangst

Sincerely,

Galson Laboratories

Mary G. Unangst Laboratory Director

Enclosure(s)



#### LABORATORY ANALYSIS REPORT

Client : Creamer Environmental, Inc.

6601 Kirkville Road Site : Horseshoe Road

East Syracuse, NY 13057 Project No. : 12-2260 (315) 432-5227

FAX: (315) 437-0571 Date Sampled : 31-JUL-13 Account No.: 20344 www.galsonlabs.com Date Received : 08-AUG-13 Login No. : L297142

Date Analyzed : 09-AUG-13 - 10-AUG-13

Report ID : 793614

#### Lead

Sample ID	<u>Lab ID</u>	Air Vol <u>liter</u>	Total ug	Conc mg/m3
20130731-001	L297142-1	788	<0.38	<0.00048
20130731-002	L297142-2	854	<0.38	<0.00044
20130731-003 BLANK	L297142-3	NA	<0.38	NA

**COMMENTS:** Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.38 ug Submitted by: crd

Analytical Method : mod. NIOSH 7300/mod. OSHA ID-125G; ICP Approved by : keg

OSHA PEL (TWA) : 0.05 mg/m3 Date : 12-AUG-13 NYS DOH # : 11626

Collection Media : Filter QC by: Karen Becker

NA -Not Applicable ND -Not Detected ppm -Parts per Million



6601 Kirkville Road East Syracuse, NY 13057

FAX: (315) 437-0571

www.galsonlabs.com

(315) 432-5227

#### LABORATORY FOOTNOTE REPORT

Client Name : Creamer Environmental, Inc.

Site : Horseshoe Road

Project No. : 12-2260

Date Sampled: 31-JUL-13 Account No.: 20344
Date Received: 08-AUG-13 Login No.: L297142

Date Analyzed: 09-AUG-13 - 10-AUG-13

Unless otherwise noted below, all quality control results associated with the samples were within established control limits.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded in order to fit the report format and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

Unless otherwise noted below, reported results have not been blank corrected for any field blank or method blank.

#### L297142 (Report ID: 793614):

The Lead results are considered accurate to within +/-10.3% based on a 95% confidence interval (k=2). This method has an average recovery of 99.9%. The estimated uncertainty applies to the media, technology, and SOP(s) referenced in this report and does not account for any uncertainty associated with the sampling process. Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.

SOPs: MT-SOP-9(24), im-mwvfilt(17)

> -Greater Than
NA -Not Applicable

mg -Milligrams ug -Micrograms ND -Not Detected m3 -Cubic Meters
1 -Liters
ppm -Parts per Million

kg -Kilograms NS -Not Specified

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	Second Second	New Client?	Report To* : G	ary Kowalski, P	roject Manager	Invoice	10*: Creame	r Environment	al Inc
	A		\ CI	reamer Environ			ATTN: 1		ai, iiic.
GALSON		Client Account N	o.*: () 40	00 Horseshoe R	Road	J.		on Street	7
LABORATORIES			— ∤ Sa	ayreville, N.J. 0	8872	/		sack, N.J. 0760	7
6601 Kirkville Rd East Syracuse, NY	13057		Phone No.":	1		Phone			7 0
Tol. (315) /37 - 5	/ Z / N	•	Cell No. : 20	1-376-7153	\		No. : 201-968-3		
888-432-LAE Fax: (315) 437-O	35 (2441)	. 6	Email Results to : wo	nkizer@parsenviro		<del></del> ,	<sup>πail</sup> : <u>GKowalsk</u>	ci@creamerenviro	onmental.com
www.galsonlabs	com	3 V 1	Email address : CH	Cowalski@oroamo	renvironmental.cor		No. :		<u> </u>
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Need Results By: (SL	0% ,	Site Name : Horse	shoe Road	Pro	oject : 12-2260				
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0	200%	Former p	recious me	tal reclema	tion facility	NJ	OSHA PEL	ACGIH TLV	Cal OSHA
Same Day		11. 10	T	Sample Volume		NJ	MSHA (	Other (specify):	erra erreg ika e
Sample Identification  (Maxmium of 20 Character	s)	Date Sampled	Collection Medium	Sample Time	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requ	ested*	Method Reference^	Hexavalent Chromium
(Maximum of 20 character		1	1	Sample Area®	L, 1111,111111,1112,C1112,112	, , , , , , , , , , , , , , , , , , , ,		Method Reference	Process (e.g., welding plating, painting, etc.)*
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<b>2</b> 0130731 - 002		07/31/13	37mm 0.8um UWMCE	427	Minutes/2LPM	LEAD			Lead Soil Excavation
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^Galson Laboratories will st	ubsititute our	routine/preferred met	hod if it does not match	the method listed on	the COC unless this box	is checked: Use meth	od(s) listed on COC	3	1
For metals analysis: if requi	esting an analy	yte with the option of a	a lower LOQ, please indi	icate if the lower LOQ is	required (only available	e for certain analytes - con	CAG) .	<del>-                                    </del>	
For crystalline silica: form(s	) of silica need	ded must be indicated	(Quartz, Cristobalite, and	d/or Tridymite )* : *	,,	Tion contain analytes 1966	ond):		
Chain of Custody		t Name/Signature		ite Time		p. t. a at.			
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8		// * Red	quired fields, failure to G	omplete these fields ma	e considered as next day result in a delay in vo	y's ousiness our samples being processed	, The state of the		100 1 04 1
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Mr. Gary Kowalski Creamer Environmental Inc. 400 Horseshoe Rd Sayreville, NJ 08872 August 27, 2013

Account# 20344

Login# L297742

Dear Mr. Kowalski:

Enclosed are the analytical results for the samples received by our laboratory on August 16, 2013. All test results meet the quality control requirements of AIHA and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

All samples were subcontracted to Bureau Veritas/Clayton Group Services, Inc. Their report is enclosed in its entirety.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact John Bailey at (888) 432-5227, if you would like any additional information regarding this report.

Thank you for using Galson Laboratories.

Mary & Unangst

Sincerely,

Galson Laboratories

Mary G. Unangst Laboratory Director

Enclosure(s)



August 23, 2013

Shelly Krause GALSON LABORATORIES 6601 Kirkville Road East Syracuse, NY 13057-

Bureau Veritas Work Order No. 13081026

Reference: L297742

Dear Shelly Krause:

Bureau Veritas North America, Inc. received 6 samples on August 19, 2013 for the analyses presented in the following report.

Enclosed is a copy of the Chain-of-Custody record, acknowledging receipt of these samples. Please note that any unused portion of the samples will be discarded 30 days after the date of this report, unless you have requested otherwise.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number provided below.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact a Client Services Representative at (800) 806-5887.

Sincerely,

Wendy desnial

Wendy Lesniak

Client Services Representative Electronic signature authorized through password protection



Date: 23-Aug-13

#### CASE NARRATIVE

CLIENT: GALSON LABORATORIES

**Project:** L297742 **Work Order No** 13081026

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results, and 3) the industrial hygiene results have not been blank corrected.

Below is the statistical precision and accuracy information for various compounds by OSHA 7, please note that there are not enough data points to provide statistical information for the following compounds: 1,2,4-trichlorobenzene, chlorobenzene, chloroform, or tetrachloroethene.

#### Benzene

Number of samples =26 Recovery % = 95.35 Relative Standard Deviation % =4.42

#### Ethylbenzene

Number of samples =24
Recovery % = 100.35
Relative Standard Deviation % =5.53

Methylene Chloride Number of samples =22 Recovery % = 96.85 Relative Standard Deviation % =5.21

#### Toluene

Number of samples =26 Recovery % = 98.95 Relative Standard Deviation % =8.44

Trichloroethylene Number of samples =46 Recovery % = 100.10 Relative Standard Deviation % =5.29



CLIENT: GALSON LABORATORIES

**Project:** L297742 **Work Order No** 13081026

Xylene

Number of samples =14 Recovery % = 96.40

Relative Standard Deviation % =5.39



Client: GALSON LABORATORIES

Project: L297742 Work Order No: 13081026

Sample Identification: 20130814-001 BLANK Date Sampled: 8/14/2013

Sample Type: 3M 3500 PM Date Received: 8/19/2013

Lab Number: 001A Sampling Time (min): 0

Analyst: MRM

Date: 23-Aug-13

	Sampling Rate	Analytical Results					Method
Analyte	(cc/min)	(µg)	(mg/m³)	(ppm)	— лии (µg)	Date Analyzed	Reference
1,2,4-Trichlorobenzene	24.8	<6	35	570	6	8/23/2013	OSHA7
Benzene	35.5	<1	3.00	570	1	8/23/2013	OSHA7
Chlorobenzene	29.3	<5	3.00	550	5	8/23/2013	OSHA7
Chloroform	33.5	<6		552	6	8/23/2013	OSHA7
Ethylberzene	27.3	<3	XX	840	3	8/23/2013	OSHA7
Methylene Chloride	37.9	<7	3346	3242	7	8/23/2013	OSHA7
Tetrachloroethene	28.3	<4	824	24%	4	8/23/2013	OSHA7
Toluene	31.4	<3	W.19	228	3	8/23/2013	OSHA 7
Tri chloroethyl ene	31.1	<5	342	223	5	8/23/2013	OSHA7
Xylene (Total)	27.3	<6	922	223	6	8/23/2013	OSHA7

<sup>&</sup>lt;: Less than the indicated reporting limit (RL).

<sup>--:</sup> Information not available or not applicable.



Client: GALSON LABORATORIES

Project: L297742 Work Order No: 13081026

Sample Identification: 20130814-002 Date Sampled: 8/14/2013

Sample Type: 3M 3500 PM Date Received: 8/19/2013

Lab Number: 002A Sampling Time (min): 581

Analyst: MRM

Date: 23-Aug-13

		Sampling Rate	Analytical Results			Analytical Re		Reporting Limit	Date	Method
Analyte	(cc/min)	(µg)	(mg/m³)	(ppm)	— (µg)	Analyzed	Reference			
1,2,4-Trichlorobenzene	24.8	<6	< 0.42	<0.056	6	8/23/2013	OSHA7			
Benzene	35.5	<1	< 0.048	< 0.015	1	8/23/2013	OSHA7			
Chlorobenzene	29.3	<5	< 0.29	< 0.064	5	8/23/2013	OSHA7			
Chloroform	33.5	<6	< 0.31	< 0.063	6	8/23/2013	OSHA7			
Ethylbenzene	27.3	<3	<0.19	< 0.044	3	8/23/2013	OSHA7			
Methylene Chloride	37.9	<7	< 0.32	< 0.092	7	8/23/2013	OSHA7			
Tetrachloroethene	28.3	<4	< 0.24	< 0.036	4	8/23/2013	OSHA7			
Toluene	31.4	10	0.55	0.15	3	8/23/2013	OSHA 7			
Tri chloroethyl ene	31.1	<5	<0.28	< 0.051	5	8/23/2013	OSHA7			
Xylene (Total)	27.3	<6	<0.38	< 0.087	6	8/23/2013	OSHA7			

<sup>&</sup>lt;: Less than the indicated reporting limit (RL).

<sup>--:</sup> Information not available or not applicable.



Client: GALSON LABORATORIES

Project: L297742 Work Order No: 13081026

Sample Identification: 20130814-003 Date Sampled: 8/14/2013

Sample Type: 3M 3500 PM Date Received: 8/19/2013

Lab Number: 003A Sampling Time (min): 554

Analyst: MRM

Date: 23-Aug-13

	Sampling Rate	Analytical Results			Reporting Limit	Date	Method
Analyte -	(cc/min)	(µg)	(mg/m³)	(ppm)	(µg)	Analyzed	Reference
1,2,4-Trichlorobenzene	24.8	<6	<0.44	<0.059	6	8/23/2013	OSHA7
Benzene	35.5	<1	< 0.051	< 0.016	1	8/23/2013	OSHA7
Chlorobenzene	29.3	<5	< 0.31	< 0.067	5	8/23/2013	OSHA7
Chloroform	33.5	<6	< 0.32	< 0.066	6	8/23/2013	OSHA7
Ethylbenzene	27.3	<3	<0.20	< 0.046	3	8/23/2013	OSHA7
Methylene Chloride	37.9	<7	< 0.33	< 0.096	7	8/23/2013	OSHA7
Tetrachloroethene	28.3	<4	< 0.26	< 0.038	4	8/23/2013	OSHA7
l'oluene	31.4	150	8.9	2.4	3	8/23/2013	OSHA7
Frichloroethylene	31.1	<5	<0.29	<0.054	5	8/23/2013	OSHA7
Xylene (Total)	27.3	<6	< 0.40	< 0.091	6	8/23/2013	OSHA7

<sup>&</sup>lt;: Less than the indicated reporting limit (RL).

<sup>--:</sup> Information not available or not applicable.



Client: GALSON LABORATORIES

Project: L297742 Work Order No: 13081026

Sample Identification: 20130814-004 Date Sampled: 8/14/2013

Sample Type: 3M 3500 PM Date Received: 8/19/2013

Lab Number: 004A Sampling Time (min): 554

Analyst: MRM

Date: 23-Aug-13

	Sampling Rate	Analytical Results			Analytical Results		Reporting Limit	Date	Method
Analyte -	(cc/min)	(µg)	(mg/m³)	(ppm)	(µg)	Analyzed	Reference		
1,2,4-Trichlorobenzene	24.8	<6	<0.44	<0.059	6	8/23/2013	OSHA7		
Benzene	35.5	<1	< 0.051	< 0.016	1	8/23/2013	OSHA7		
Chlorobenzene	29.3	<5	< 0.31	< 0.067	5	8/23/2013	OSHA7		
Chloroform	33.5	<6	< 0.32	<0.066	6	8/23/2013	OSHA7		
Ethylbenzene	27.3	<3	<0.20	< 0.046	3	8/23/2013	OSHA7		
Methylene Chloride	37.9	<7	< 0.33	< 0.096	7	8/23/2013	OSHA7		
Tetrachloroethene	28.3	<4	<0.26	< 0.038	4	8/23/2013	OSHA7		
l'oluene	31.4	67	3.9	1.0	3	8/23/2013	OSHA7		
Frichloroethylene	31.1	<5	<0.29	< 0.054	5	8/23/2013	OSHA7		
Xylene (Total)	27.3	<6	<0.40	< 0.091	6	8/23/2013	OSHA7		

<sup>&</sup>lt;: Less than the indicated reporting limit (RL).

<sup>--:</sup> Information not available or not applicable.



Client: GALSON LABORATORIES

Project: L297742 Work Order No: 13081026

Sample Identification: 20130814-005 Date Sampled: 8/14/2013

Sample Type: 3M 3500 PM Date Received: 8/19/2013

Lab Number: 005A Sampling Time (min): 525

Analyst: MRM

Date: 23-Aug-13

	Sampling Rate	Analytical Results			Reporting Limit	[14.주인지 - [12] - 프라	Method	
Analyte -	(cc/min)	(μg)	(mg/m³)	(ppm)	(µg)	Analyzed	Reference	
1,2,4-Trichlorobenzene	24.8	- <6	<0.46	<0.062	6	8/23/2013	OSHA7	
Benzene	35.5	<1	< 0.054	< 0.017	1	8/23/2013	OSHA7	
Chlorobenzene	29.3	<5	<0.33	< 0.071	5	8/23/2013	OSHA7	
Chloroform	33.5	<6	< 0.34	< 0.070	6	8/23/2013	OSHA7	
Ethylbenzene	27.3	<3	<0.21	<0.048	3	8/23/2013	OSHA7	
Methylene Chloride	37.9	<7	<0.35	< 0.10	7	8/23/2013	OSHA7	
Tetrachloroethene	28.3	<4	< 0.27	< 0.040	4	8/23/2013	OSHA7	
Foluene	31.4	22	1.3	0.36	3	8/23/2013	OSHA7	
Frichloroethylene	31.1	<5	<0.31	< 0.057	5	8/23/2013	OSHA7	
Xylene (Total)	27.3	<6	< 0.42	< 0.096	6	8/23/2013	OSHA7	

<sup>&</sup>lt;: Less than the indicated reporting limit (RL).

<sup>--:</sup> Information not available or not applicable.



Client: GALSON LABORATORIES

Project: L297742 Work Order No: 13081026

Sample Identification: 20130814-006 Date Sampled: 8/14/2013

Sample Type: 3M 3500 PM Date Received: 8/19/2013

Lab Number: 006A Sampling Time (min): 522

Analyst: MRM

Date: 23-Aug-13

	Sampling Rate	A	nalytical Rest	ults	Reporting Limit	Date Analyzed	Method
Analyte -	(cc/min)	(µg)	$(mg/m^3)$	(ppm)	(µg)		Reference
1,2,4-Trichlorobenzene	24.8	<6	<0.46	<0.062	6	8/23/2013	OSHA7
Benzene	35.5	<1	< 0.054	< 0.017	1	8/23/2013	OSHA7
Chlorobenzene	29.3	<5	< 0.33	< 0.071	5	8/23/2013	OSHA7
Chloroform	33.5	<6	< 0.34	< 0.070	6	8/23/2013	OSHA7
Ethylbenzene	27.3	<3	< 0.21	<0.048	3	8/23/2013	OSHA7
Methylene Chloride	37.9	<7	< 0.35	< 0.10	7	8/23/2013	OSHA7
Tetrachloroethene	28.3	<4	<0.27	< 0.040	4	8/23/2013	OSHA7
l'oluene	31.4	<3	<0.18	< 0.049	3	8/23/2013	OSHA7
l'ri chloroethyl ene	31.1	<5	< 0.31	< 0.057	5	8/23/2013	OSHA7
Xylene (Total)	27.3	<6	< 0.42	< 0.097	6	8/23/2013	OSHA7

<sup>&</sup>lt;: Less than the indicated reporting limit (RL).

<sup>--:</sup> Information not available or not applicable.

		BV - Novi	Report To	Shelly K	(rause	Invoice To	Jeanne G	Blisson
GALS	ON Che	eck if change		Galson La	boratory		Galson La	boratory
GALS		address		6601 Kirkv	ille Road		6601 Kirkvi	lle Road
601 Kirkville Rd		w Client? yes		East Syracuse			East Syracuse	, NY 13057
ast Syracuse, NY 1305 el: 315-437-5227	7-9672	no 🗌	Phone No. :	888-432	-5227	Phone No.		Market Company
888-432-LABS(522)	7)					Fax No.	315-437	-0571
ax, 315-437-0571 www.galsonlabs.com						1007710	SW NOE	4
		Site Name :	Nine .		Project :	L297742	Sampled By :	Client
Need Results By: 5 Business Day:	(surcharge)	Verbal Authoriza Purchase Order	10/10/10/10	20344		_		
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Next Day by Noor	I Saladan	Email Results		skrause@galsonlal				
Same da	y 200%							
Next Day by Noor Same da Sample Identificat 20130814-001		Date Sampled	Collection Medium	*Air Volume (liters)/ Passive Monitors (Min)	Analysis F	Requested	Method Reference	Specific D Needed
20130814-001	BLANK	8/14/2013	M3M-3500	BLANK	Tolu	uene	OSHA 07; GC/FID	
20130814-001	BLANK	8/14/2013	M3M-3500	BLANK	Ethylbe	enzene	OSHA 07; GC/FID	
20130814-001	BLANK	8/14/2013	M3M-3500	BLANK	Ben	zene	OSHA 07; GC/FID	
20130814-001	BLANK	8/14/2013	M3M-3500	BLANK	Chlor	oform	OSHA 07; GC/FID	
20130814-001	BLANK	8/14/2013	M3M-3500	BLANK	Chlorot	enzene	OSHA 07; GC/FID	
20130814-001	BLANK	8/14/2013	M3M-3500	BLANK	Trichloro	ethylene	OSHA 07; GC/FID	
20130814-001	BLANK	8/14/2013	M3M-3500	BLANK	Tetrachlor	roethylene	OSHA 07; GC/FID	
20130814-001	BLANK	8/14/2013	M3M-3500	BLANK	Xyle	ene	OSHA 07; GC/FID	
20130814-001	BLANK	8/14/2013	M3M-3500	BLANK	1,2,4-Trichl	orobenzene	OSHA 07; GC/FID	
20130814-001	BLANK	8/14/2013	M3M-3500	BLANK	Methylene	e Chloride	OSHA 07; GC/FID	
20130814	-002	8/14/2013	M3M-3500	581.	Ethylbe	enzene	OSHA 07; GC/FID	
COMMENTS:	111	he method being repo	rted is not on you	r laboratory's current AIHA s	cope of accreditation	on, please state tha	at in your report.	
	vide an uncert	tainty statement in acc Print Name	ordance with AIH	A LQAP policy document Se	Signature	ed results by 08/26		_
Chain of Custody Relinquished by	-	Cameron Kenne	dv	( )	Бідпакиге			Date/Time /16/13 1430
Received by LAB		David Foris	-,	57	1			//9 10:00

2::		BV - Novi	Report To	Shelly P	(rause	Invoice To	: Jeanne G	lliana.
	Che	ck if change	report to	Galson La			Galson Lai	
GALS		ddress		6601 Kirkv			6601 Kirkvi	
601 Kirkville Rd	New	Client? yes		East Syracuse			East Syracuse	
East Syracuse, NY 13057-	9672	no 🗌	Phone No. :	888-432	-5227	Phone No.		
el: 315-437-5227 888-432-LABS(5227)						Fax No.	315-437-	-0571
ax: 315-437-0571	41							
ww.galsonlabs.com		Site Name :			Project:	L297742	Sampled By :	Client
Need Results By:	(surcharge)	Verbal Authoriza						
Need Results By: 5 Business Days 4 Business Days	0%	Purchase Order		20344		_		
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3 Business Days	50%	-						
2 Business Days	75%	Fax Results	To:	Email Only Plea	200	Fay No.	E	Diana
Next Day by 6pm Next Day by Noon	100%	Email Results		skrause@galsonlal		_ Fax No.	Email Only	Please
Same day	10000000			9	3.00111			
Sample Identificati		Date Sampled	Collection Medium	*Air Volume (liters)/ Passive Monitors (Min)	Analysis Re	quested	Method Reference	Specific D Needed
20130814-0	esicion .	8/14/2013	M3M-3500	581.	Toluer		OSHA 07; GC/FID	iveeded
20130814-	. Acces	8/14/2013	M3M-3500	581.	Methylene (	Contraction of the Contraction o	OSHA 07; GC/FID	
20130814-		8/14/2013	M3M-3500	581.	Trichloroet		OSHA 07; GC/FID	
20130814-		8/14/2013	M3M-3500	581.	Xylen		OSHA 07; GC/FID	
20130814-	002	8/14/2013	M3M-3500	581.	Tetrachloroe	ethylene	OSHA 07; GC/FID	
20130814-	002	8/14/2013	M3M-3500	581.	Chlorofe	orm	OSHA 07; GC/FID	
20130814-	002	8/14/2013	M3M-3500	581.	1,2,4-Trichlore	obenzene	OSHA 07; GC/FID	
20130814-	002	8/14/2013	M3M-3500	581.	Benze	ne	OSHA 07; GC/FID	
20130814-	002	8/14/2013	M3M-3500	581.	Chlorober	nzene	OSHA 07; GC/FID	
20130814-	003	8/14/2013	M3M-3500	554.	Trichloroet	hylene	OSHA 07; GC/FID	
20130814-	003	8/14/2013	M3M-3500	554.	Toluer	ne	OSHA 07; GC/FID	
COMMENTS:	Irth	e method being repo	rted is not on you	r laboratory's current AIHA s	cope of accreditation,	please state tha	t in your report.	
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Chain of Custody		Cameron Kenne	dv	/	Signature			Date/Time 16/13 1430
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Krause Invoice To	20	
	Jeanne Gli	isson
Laboratory	Galson Labo	oratory
kville Road	6601 Kirkville	e Road
	East Syracuse,	NY 13057
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		Needed
Ethylbenzene	OSHA 07; GC/FID	
Chlorobenzene	OSHA 07; GC/FID	
Xylene	OSHA 07; GC/FID	
1,2,4-Trichlorobenzene	OSHA 07; GC/FID	
Chloroform	OSHA 07; GC/FID	
Tetrachloroethylene	OSHA 07; GC/FID	
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554.	Trichloroethyl	ene	OSHA 07; GC/FID	
554.	Methylene Chic	oride	OSHA 07; GC/FID	
554.	1,2,4-Trichlorobe	enzene	OSHA 07; GC/FID	
554.	Tetrachloroethy	lene	OSHA 07; GC/FID	
554.	Xylene		OSHA 07; GC/FID	
554.	Toluene		OSHA 07; GC/FID	
554.	Benzene		OSHA 07; GC/FID	
525.	Trichloroethyl	ene	OSHA 07; GC/FID	
525.	Tetrachloroethy	/lene	OSHA 07; GC/FID	
525.	Chloroform	ř.	OSHA 07; GC/FID	
525.	1,2,4-Trichlorobe	enzene	OSHA 07; GC/FID	
	Email Only Pleas skrause@galsonlab  *Air Volume (liters)/ Passive Monitors (Min) 554. 554. 554. 554. 554. 555. 555. 525.	Email Only Please skrause@galsonlabs.com  *Air Volume (liters)/ Passive Monitors (Min)	Email Only Please Fax No. :  skrause@galsonlabs.com  *Air Volume (liters)/ Passive Monitors (Min) Analysis Requested  554. Trichloroethylene  554. Methylene Chloride  554. 1,2,4-Trichlorobenzene  554. Tetrachloroethylene  554. Xylene  555. Toluene  555. Trichloroethylene  525. Tetrachloroethylene  525. Tetrachloroethylene  525. Tetrachloroethylene  525. Tetrachloroethylene  525. Tetrachloroethylene  525. Chloroform	Email Only Please Fax No.: Email Only I skrause@galsonlabs.com  *Air Volume (liters)/ Passive Monitors (Min) Analysis Requested Method Reference  554. Trichloroethylene OSHA 07; GC/FID  554. Methylene Chloride OSHA 07; GC/FID  554. Tetrachloroethylene OSHA 07; GC/FID  554. Tetrachloroethylene OSHA 07; GC/FID  554. Xylene OSHA 07; GC/FID  555. Toluene OSHA 07; GC/FID  555. Trichloroethylene OSHA 07; GC/FID  555. Trichloroethylene OSHA 07; GC/FID  555. Tetrachloroethylene OSHA 07; GC/FID  555. Chloroform OSHA 07; GC/FID

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and or			Report To			_Invoice To		
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Tel: 315-437-5227			THORE NO.	000 402	ULLI	Fax No.	315-437-	PARTICIPATE TO SERVICE
888-432-LABS(5227 Fax: 315-437-0571	,							
www.galsonlabs.com		Site Name :			Project :	297742	Sampled By :	Client
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Identificati	ion	Date Sampled	Medium	Passive Monitors (Min)	Analysis Re	quested	Method Reference	Needed
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20130814-	005	8/14/2013	M3M-3500	525.	Ethylben	zene	OSHA 07; GC/FID	
20130814-	005	8/14/2013	M3M-3500	525.	Xylen	е	OSHA 07; GC/FID	
20130814-	005	8/14/2013	M3M-3500	525.	Toluer	ne	OSHA 07; GC/FID	
20130814-	005	8/14/2013	M3M-3500	525.	Chlorober	nzene	OSHA 07; GC/FID	
20130814-	005	8/14/2013	M3M-3500	525.	Methylene (	Chloride	OSHA 07; GC/FID	
20130814-	006	8/14/2013	M3M-3500	522.	Chlorofe	orm	OSHA 07; GC/FID	
20130814-	006	8/14/2013	M3M-3500	522.	1,2,4-Trichlore	obenzene	OSHA 07; GC/FID	
20130814-	006	8/14/2013	M3M-3500	522.	Chlorober	nzene	OSHA 07; GC/FID	
20130814-	006	8/14/2013	M3M-3500	522.	Methylene (	Chloride	OSHA 07; GC/FID	
20130814-	006	8/14/2013	M3M-3500	522.	Trichloroet	hylene	OSHA 07; GC/FID	
COMMENTS:	If the	e method being repo	orted is not on you	ır laboratory's current AlHA s	scope of accreditation,	please state th	al in your report.	
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www.galsonlabs.com		Site Name :			Project :	L297742	Sampled By :	Client
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For crystalline silica: form	(s) of silica nee	ded must be indicated	(Quartz, Cristobalite, a	ınd/or Tridyr	nite )* :				i,	7			
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Mr. Gary Kowalski Creamer Environmental Inc. 400 Horseshoe Rd Sayreville, NJ 08872 October 23, 2013

Account# 20344

Login# L302378

Dear Mr. Kowalski:

Enclosed are the analytical results for the samples received by our laboratory on October 14, 2013. All test results meet the quality control requirements of AIHA and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

All samples were subcontracted to Bureau Veritas/Clayton Group Services, Inc. Their report is enclosed in its entirety.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact John Bailey at (888) 432-5227, if you would like any additional information regarding this report.

Thank you for using Galson Laboratories.

Mary & Unangst

Sincerely,

Galson Laboratories

Mary G. Unangst Laboratory Director

Enclosure(s)



October 23, 2013

Shelly Krause GALSON LABORATORIES 6601 Kirkville Road East Syracuse, NY 13057-

Bureau Veritas Work Order No. 13101094

Reference: L302378

Dear Shelly Krause:

Bureau Veritas North America, Inc. received 7 samples on October 16, 2013 for the analyses presented in the following report.

Enclosed is a copy of the Chain-of-Custody record, acknowledging receipt of these samples. Please note that any unused portion of the samples will be discarded 30 days after the date of this report, unless you have requested otherwise.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number provided below.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact a Client Services Representative at (800) 806-5887.

Sincerely,

Wendy desnial

Wendy Lesniak

Client Services Representative
Electronic signature authorized through password protection

Main: (248) 344.1770 Fax: (248) 344.2655

www.us.bureauveritas.com



Date: 23-Oct-13

#### CASE NARRATIVE

CLIENT: GALSON LABORATORIES

**Project:** L302378 **Work Order No** 13101094

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results, and 3) the industrial hygiene results have not been blank corrected.

Below is the statistical precision and accuracy information for various analytes by OSHA 7:

#### Benzene

Number of samples =26 Recovery % = 95.35 Relative Standard Deviation % =4.42

#### Chlorobenzene

Number of samples =16 Recovery % = 94.45 Relative Standard Deviation % =5.49

#### Ethylbenzene

Number of samples =24 Recovery % = 100.35 Relative Standard Deviation % =5.53

Methylene Chloride Number of samples =22 Recovery % = 96.85 Relative Standard Deviation % =5.21

#### Toluene

Number of samples =26 Recovery % = 98.95 Relative Standard Deviation % =8.44

#### Tri chloroethyl ene

Number of samples =46



CLIENT: GALSON LABORATORIES

**Project:** L302378 **Work Order No** 13101094

Recovery % = 100.10

Relative Standard Deviation % =5.29

Xylene

Number of samples =14

Recovery % = 96.40

Relative Standard Deviation % =5.39

Please note that there are not enough data points to provide statistical information for chloroform, tetrachloroethene, and 1,2,4-Trichlorobenzene.



Client: GALSON LABORATORIES

Project: L302378 Work Order No: 13101094

Sample Identification: 20130930-001 Date Sampled: 9/30/2013

Sample Type: 3M 3500 PM Date Received: 10/16/2013

Lab Number: 001A Sampling Time (min): 403

Analyst: CAW

Date: 23-Oct-13

	Sampling Rate	A	nalytical Res	ults	Reporting Limit	Date	Method
Analyte	(cc/min)	(µg)	(mg/m³)	(ppm)	:::::::::::::::::::::::::::::::::::	Analyzed	Reference
1,2,4-Trichlorobenzene	24.8	<6	<0.60	<0.081	6	10/21/2013	OSHA7
Benzene	35.5	<1	< 0.070	< 0.022	i	10/21/2013	OSHA7
Chlorobenzene	29.3	<5	< 0.42	< 0.092	5	10/21/2013	OSHA7
Chloroform	33.5	<6	< 0.44	< 0.091	6	10/21/2013	OSHA7
Ethylbenzene	27.3	<3	<0.27	< 0.063	3	10/21/2013	OSHA7
Methylene Chloride	37.9	<7	< 0.46	< 0.13	7	10/21/2013	OSHA7
Tetrachloroethene	28.3	<4	< 0.35	< 0.052	4	10/21/2013	OSHA7
Toluene	31.4	18	1.4	0.37	3	10/21/2013	OSHA7
Frichloroethylene	31.1	<5	<0.40	<0.074	5	10/21/2013	OSHA7
Xylene (Total)	27.3	<6	<0.55	< 0.13	6	10/21/2013	OSHA7

<sup>&</sup>lt;: Less than the indicated reporting limit (RL).

<sup>--:</sup> Information not available or not applicable.



Client: GALSON LABORATORIES

Project: L302378 Work Order No: 13101094

Sample Identification: 20130930-002 Date Sampled: 9/30/2013

Sample Type: 3M 3500 PM Date Received: 10/16/2013

Lab Number: 002A Sampling Time (min): 403

Analyst: CAW

Date: 23-Oct-13

	Sampling Rate	A	nalytical Res	ults	Reporting Limit	Date Analyzed	Method
Analyte -	(cc/min)	(µg)	(mg/m³)	(ppm)	(µg)		Reference
1,2,4-Trichlorobenzene	24.8	49	4.9	0.65	6	10/21/2013	OSHA7
Benzene	35.5	<1	< 0.070	< 0.022	1	10/21/2013	OSHA7
Chlorobenzene	29.3	<5	< 0.42	< 0.092	5	10/21/2013	OSHA7
Chloroform	33.5	<6	< 0.44	< 0.091	6	10/21/2013	OSHA7
Ethylbenzene	27.3	<3	<0.27	< 0.063	3	10/21/2013	OSHA7
Methylene Chloride	37.9	<7	< 0.46	< 0.13	7	10/21/2013	OSHA7
Tetrachloroethene	28.3	<4	< 0.35	< 0.052	4	10/21/2013	OSHA7
Toluene	31.4	77	6.1	1.6	3	10/21/2013	OSHA7
Frichloroethylene	31.1	<5	<0.40	<0.074	5	10/21/2013	OSHA7
Xylene (Total)	27.3	6.4	0.59	0.13	6	10/21/2013	OSHA 7

<sup>&</sup>lt;: Less than the indicated reporting limit (RL).

<sup>--:</sup> Information not available or not applicable.



Client: GALSON LABORATORIES

Project: L302378 Work Order No: 13101094

Sample Identification: 20130930-003 Date Sampled: 9/30/2013

Sample Type: 3M 3500 PM Date Received: 10/16/2013

Lab Number: 003A Sampling Time (min): 240

Analyst: CAW

Date: 23-Oct-13

	Sampling Rate	A	nalytical Rest	ults	Reporting Limit	g Date Analyzed	Method
Analyte	(cc/min)	(µg)	(mg/m³)	(ppm)	— (µg)		Reference
1,2,4-Trichlorobenzene	24.8	12	2.0	0.27	6	10/21/2013	OSHA7
Benzene	35.5	<1	< 0.12	< 0.037	1	10/21/2013	OSHA7
Chlorobenzene	29.3	<5	< 0.71	< 0.15	5	10/21/2013	OSHA7
Chloroform	33.5	<6	< 0.75	< 0.15	6	10/21/2013	OSHA7
Ethylbenzene	27.3	<3	< 0.46	< 0.11	3	10/21/2013	OSHA7
Methylene Chloride	37.9	<7	<0.77	< 0.22	7	10/21/2013	OSHA7
Tetrachloroethene	28.3	9.0	1.3	0.20	4	10/21/2013	OSHA7
Toluene	31.4	79	10	2.8	3	10/21/2013	OSHA7
Tri chloroethyl ene	31.1	7.1	0.96	0.18	5	10/21/2013	OSHA7
Xylene (Total)	27.3	12	1.8	0.42	6	10/21/2013	OSHA7

<sup>&</sup>lt;: Less than the indicated reporting limit (RL).

<sup>--:</sup> Information not available or not applicable.



Client: GALSON LABORATORIES

Project: L302378 Work Order No: 13101094

Sample Identification: 20130930-004 Date Sampled: 9/30/2013

Sample Type: 3M 3500 PM Date Received: 10/16/2013

Lab Number: 004A Sampling Time (min): 405

Analyst: CAW

Date: 23-Oct-13

	Sampling Rate	A	Analytical Results			Date	Method
Analyte	(cc/min)	(µg)	(mg/m³)	(ppm)	Limit (μg)	Analyzed	Reference
1,2,4-Trichlorobenzene	24.8	<6	<0.60	<0.080	6	10/21/2013	OSHA7
Benzene	35.5	<1	< 0.070	< 0.022	1	10/21/2013	OSHA7
Chlorobenzene	29.3	<5	< 0.42	< 0.092	5	10/21/2013	OSHA7
Chloroform	33.5	<6	< 0.44	< 0.091	6	10/21/2013	OSHA7
Ethylbenzene	27.3	<3	<0.27	< 0.062	3	10/21/2013	OSHA7
Methylene Chloride	37.9	<7	< 0.46	< 0.13	7	10/21/2013	OSHA7
Tetrachloroethene	28.3	<4	< 0.35	< 0.051	4	10/21/2013	OSHA7
Foluene	31.4	11	0.87	0.23	3	10/21/2013	OSHA7
Tri chloroethyl ene	31.1	<5	<0.40	<0.074	5	10/21/2013	OSHA7
Xylene (Total)	27.3	<6	<0.54	< 0.12	6	10/21/2013	OSHA7

<sup>&</sup>lt;: Less than the indicated reporting limit (RL).

<sup>--:</sup> Information not available or not applicable.



Client: GALSON LABORATORIES

Project: L302378 Work Order No: 13101094

Sample Identification: 20130930-005 Date Sampled: 9/30/2013

Sample Type: 3M 3500 PM Date Received: 10/16/2013

Lab Number: 005A Sampling Time (min): 417

Analyst: CAW

Date: 23-Oct-13

	Sampling Rate	A	Analytical Results			Date	Method
Analyte	(cc/min)	(µg)	$(mg/m^3)$	(mg/m³) (ppm)		Analyzed	Reference
1,2,4-Trichlorobenzene	24.8	6.1	0.59	0.080	6	10/21/2013	OSHA7
Benzene	35.5	<1	< 0.068	< 0.021	1	10/21/2013	OSHA7
Chlorobenzene	29.3	<5	< 0.41	<0.089	5	10/21/2013	OSHA7
Chloroform	33.5	<6	< 0.43	<0.088	6	10/21/2013	OSHA7
Ethylbenzene	27.3	<3	<0.26	< 0.061	3	10/21/2013	OSHA7
Methylene Chloride	37.9	<7	< 0.44	< 0.13	7	10/21/2013	OSHA7
Tetrachloroethene	28.3	<4	< 0.34	< 0.050	4	10/21/2013	OSHA7
Toluene	31.4	16	1.2	0.32	3	10/21/2013	OSHA7
Tri chloroethyl ene	31.1	<5	< 0.39	< 0.072	5	10/21/2013	OSHA7
Xylene (Total)	27.3	<6	<0.53	< 0.12	6	10/21/2013	OSHA7

<sup>&</sup>lt;: Less than the indicated reporting limit (RL).

<sup>--:</sup> Information not available or not applicable.



Client: GALSON LABORATORIES

Project: L302378 Work Order No: 13101094

Sample Identification: 20130930-006 Date Sampled: 9/30/2013

Sample Type: 3M 3500 PM Date Received: 10/16/2013

Lab Number: 006A Sampling Time (min): 384

Analyst: CAW

Date: 23-Oct-13

	Sampling Rate	A	Analytical Results			Date	Method
Analyte	(cc/min)	(µg)	(mg/m³)	(ppm)	Limit (μg)	Analyzed	Reference
1,2,4-Trichlorobenzene	24.8	16	1.7	0.23	6	10/21/2013	OSHA7
Benzene	35.5	<1	< 0.073	< 0.023	1	10/21/2013	OSHA7
Chlorobenzene	29.3	<5	< 0.44	< 0.097	5	10/21/2013	OSHA7
Chloroform	33.5	<6	< 0.47	< 0.096	6	10/21/2013	OSHA7
Ethylbenzene	27.3	3.1	0.29	0.067	3	10/21/2013	OSHA7
Methylene Chloride	37.9	<7	<0.48	< 0.14	7	10/21/2013	OSHA7
l'etrachloroethene	28.3	13	1.2	0.17	4	10/21/2013	OSHA7
l'aluene	31.4	120	9.6	2.6	3	10/21/2013	OSHA7
Tri chloroethyl ene	31.1	12	1.0	0.19	5	10/21/2013	OSHA7
Xylene (Total)	27.3	16	1.5	0.34	6	10/21/2013	OSHA7

<sup>&</sup>lt;: Less than the indicated reporting limit (RL).

<sup>--:</sup> Information not available or not applicable.



Client: GALSON LABORATORIES

Project: L302378 Work Order No: 13101094

Sample Identification: 20130930-007 BLANK Date Sampled: 9/30/2013

Sample Type: 3M 3500 PM Date Received: 10/16/2013

Lab Number: 007A Sampling Time (min): 0

Analyst: CAW

Date: 23-Oct-13

	Sampling Rate	A	Analytical Results			g Date	Method
Analyte	(cc/min)	(µg)	(mg/m³)	(mg/m³) (ppm)		Analyzed	Reference
1,2,4-Trichlorobenzene	24.8	<6	3.00	572	6	10/21/2013	OSHA7
Benzene	35.5	<1	. ( <del>48</del>	553	1	10/21/2013	OSHA7
Chlorobenzene	29.3	<5	3,00	572	5	10/21/2013	OSHA7
Chloroform	33.5	<6	3.98	572	6	10/21/2013	OSHA7
Ethylbenzene	27.3	<3	MAR	243	3	10/21/2013	OSHA7
Methylene Chloride	37.9	<7	1946	845	7	10/21/2013	OSHA7
l'etrachloroethene	28.3	<4	89219	228	4	10/21/2013	OSHA7
l'oluene	31.4	<3	2224	248	3	10/21/2013	OSHA7
richloroethylene	31.1	<5	922	223	5	10/21/2013	OSHA7
Xylene (Total)	27.3	<6	922	223	6	10/21/2013	OSHA 7

<sup>&</sup>lt;: Less than the indicated reporting limit (RL).

<sup>--:</sup> Information not available or not applicable.

		BV - Novi	Report To	Shelly K	(rause	Invoice To	Jeanne G	lisson
CALC	ON Che	eck if change		Galson La			Galson Lat	oratory
GALS	11 11 11	address		6601 Kirkv	ille Road		6601 Kirkvii	le Road
6601 Kirkville Rd	Ne	w Client 7 yes		East Syracuse	e, NY 13057		East Syracuse	NY 13057
East Syracuse, NY 1305	7-9672	no 🗌	Phone No. :	888-432	-5227	Phone No.	888-432-	5227
Tel: 315-437-5227 888-432-LABS(522)	7)					Fax No.	315-437-	0571
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www.galsonlabs.com		Site Name :			Project :	L302378	Sampled By :	Client
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20130930-	001	9/30/2013	M3M-3500	403.	Tolue	ne	OSHA 07; GC/FID	
20130930-	-001	9/30/2013	M3M-3500	403.	Xyler	ne	OSHA 07; GC/FID	
20130930-	001	9/30/2013	M3M-3500	403.	Ethylber	nzene	OSHA 07; GC/FID	
20130930-	-001	9/30/2013	M3M-3500	403.	Benze	ene	OSHA 07; GC/FID	
20130930-	-001	9/30/2013	M3M-3500	403.	1,2,4-Trichlor	robenzene	OSHA 07; GC/FID	
20130930-	001	9/30/2013	M3M-3500	403.	Chlorof	form	OSHA 07; GC/FID	
20130930-	-001	9/30/2013	M3M-3500	403.	Tetrachloro	ethylene	OSHA 07; GC/FID	
20130930-	-001	9/30/2013	M3M-3500	403.	Trichloroe	thylene	OSHA 07; GC/FID	
20130930-	-001	9/30/2013	M3M-3500	403.	Methylene	Chloride	OSHA 07; GC/FID	
20130930	001	9/30/2013	M3M-3500	403.	Chlorobe	nzene	OSHA 07; GC/FID	0
20130930-	002	9/30/2013	M3M-3500	403.	Tolue	ne .	OSHA 07; GC/FID	
COMMENTS:	IF EF	he method being repo	orted is not on you	ır laboratory's current AIHA	scope of accreditation	ı, please state th	at in your report.	
	ide an uncert		cordance with All-	A LQAP policy document &		results by 10/23		authorized.** Date/Time
Chain of Custody		Print Name Cameron Kenne	adv	1/2	Signature			0/15/13 0921
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neceived by LAB		[PAL/17]		2007 L	the good		/ /	I TOTAL DESCRIPTION OF THE PARTY OF THE PART

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GALS	UIV .	ddress		6601 Kirkvi	lle Road		6601 Kirkv	ille Road
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www.galscnlabs.com		Site Name :	Section 1		Project :	L302378	Sampled By :	Client
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Identificati	on	Date Sampled	Medium	Passive Monitors (Min)	Analysis F	Requested	Method Reference	Needed
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20130930-0	002	9/30/2013	M3M-3500	403.	Benz	zene *	OSHA 07; GC/FID	
20130930-0	002	9/30/2013	M3M-3500	403.	Chlor	oform -	OSHA 07; GC/FID	
20130930-0	002	9/30/2013	M3M-3500	403.	Chlorob	enzene	OSHA 07; GC/FID	
20130930-0	002	9/30/2013	M3M-3500	403.	Trichlore	ethylene _	OSHA 07; GC/FID	
20130930-0	002	9/30/2013	M3M-3500	403.	Tetrachlor	roethylene *	OSHA 07; GC/FID	
20130930-0	002	9/30/2013	M3M-3500	403.	Xyl	ene _	OSHA 07; GC/FID	
20130930-0	002	9/30/2013	M3M-3500	403.	1,2,4-Trichl	orobenzene ~	OSHA 07; GC/FID	
20130930-0	002	9/30/2013	M3M-3500	403.	Methylene	e Chloride .	OSHA 07; GC/FID	
20130930-0	003	9/30/2013	M3M-3500	240	Ethylbe	enzene -	OSHA 07; GC/FID	
20130930-0	003	9/30/2013	M3M-3500	240	Tolu	iene -	OSHA 07; GC/FID	
COMMENTS:	If th	e method being repo	rted is not on you	ur laboratory's current AIHA	scope of accreditation	on, please state th	nat in your report.	
01 10 10	**Please		ty statement in a	ccordance with AIHA LQAP		ction 2A.5.4.3. Ne	ed results by 10/23/13	Date/Time
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Relinquished by : Received by LAB :	ć	Cameron Kenne	ecció	1	1			10/16 11:48

		BV - Novi	Report To	Shelly K	rause	Invoice To	Jeanne C	Glisson
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Identification		Date Sampled	Medium	Passive Monitors (Min)	Analysis Re	equested	Method Reference	Needed
20130930-003	1	9/30/2013	M3M-3500	240	Methylene	Chloride -	OSHA 07; GC/FID	
20130930-003		9/30/2013	M3M-3500	240	Trichloroe	thylene ~	OSHA 07; GC/FID	
20130930-003		9/30/2013	M3M-3500	240	Xyler	ne ,	OSHA 07; GC/FID	
20130930-003		9/30/2013	M3M-3500	240	Tetrachloro	ethylene -	OSHA 07; GC/FID	
20130930-003	1	9/30/2013	M3M-3500	240	Chloro	form -	OSHA 07; GC/FID	
20130930-003	-	9/30/2013	M3M-3500	240	1,2,4-Trichlo	robenzene *	OSHA 07; GC/FID	
20130930-003	+	9/30/2013	M3M-3500	240	Benze	ene -	OSHA 07; GC/FID	
20130930-003		9/30/2013	M3M-3500	240	Chlorobe	nzene /	OSHA 07; GC/FID	
20130930-004	1	9/30/2013	M3M-3500	405.	Trichloroe	thylene /	OSHA 07; GC/FID	
20130930-004	11	9/30/2013	M3M-3500	405.	Tolue	and the same of th	OSHA 07; GC/FID	
20130930-004		9/30/2013	M3M-3500	405.	Ethylber	nzene -	OSHA 07; GC/FID	
COMMENTS:	If the	e method being repo	rted is not on you	ur laboratory's current AIHA	scope of accreditation	ı, please state th	at in your report.	
	**Please p		ty statement in a	ccordance with AIHA LQAP	the same of the party of the pa	ion 2A.5.4.3. Ne	ed results by 10/23/13	Date/Time
Chain of Custody Relinquished by :		Print Name Cameron, Kenne	du	(1)	Signature		1	0/15/13 0921
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Page 15 of 19	
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	20130930-0	004	9/30/2013	M3M-3500	405.		benzene _	OSHA 07; GC/FID	
	20130930-0	004	9/30/2013	M3M-3500	405.	Ху	lene c	OSHA 07; GC/FID	
	20130930-0	004	9/30/2013	M3M-3500	405.	1,2,4-Trich	lorobenzene /	OSHA 07; GC/FID	
	20130930-0	004	9/30/2013	M3M-3500	405.	Chlo	roform	OSHA 07; GC/FID	2
	20130930-0	004	9/30/2013	M3M-3500	405.	Tetrachlo	proethylene r	OSHA 07; GC/FID	
	20130930-0	JASUS V	9/30/2013	M3M-3500	405.	Ber	nzene (	OSHA 07; GC/FID	
	20130930-0		9/30/2013	M3M-3500	405.	Methylen	e Chloride -	OSHA 07; GC/FID	
	20130930-0	- (	9/30/2013	M3M-3500	417.		enzene -	OSHA 07; GC/FID	
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	eck if change		Galson Lab		-	Galson Lab	
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el: 315-437-5227		Phone No. :	888-432-	3221	Fax No.	315-437-	W-1000
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www.galsonlabs.com	Site Name :			Project:	302378	Sampled By :	Client
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Identification	Date Sampled	Medium	Passive Monitors (Min)	Analysis Re	quested	Method Reference	Needed
20130930-005	9/30/2013	M3M-3500	417.	Methylene (	Chloride -	OSHA 07; GC/FID	
20130930-005	9/30/2013	M3M-3500	417.	1,2,4-Trichlor	obenzene~	OSHA 07; GC/FID	
20130930-005	9/30/2013	M3M-3500	417.	Tetrachloroe	ethylene .	OSHA 07; GC/FID	
20130930-005	9/30/2013	M3M-3500	417.	Xylen	e '	OSHA 07; GC/FID	
20130930-005	9/30/2013	M3M-3500	417.	Toluer	ne (	OSHA 07; GC/FID	
20130930-005	9/30/2013	M3M-3500	417.	Benze	ne -	OSHA 07; GC/FID	
20130930-006	9/30/2013	M3M-3500	384.	Trichloroet	hylene -	OSHA 07; GC/FID	
20130930-006	9/30/2013	M3M-3500	384.	Tetrachloroe	ethylene -	OSHA 07; GC/FID	
20130930-006	9/30/2013	M3M-3500	384.	Chlorofe	orm .	OSHA 07; GC/FID	
20130930-006	9/30/2013	M3M-3500	384.	1,2,4-Trichlor	obenzene ,	OSHA 07; GC/FID	
20130930-006	9/30/2013	M3M-3500	384.	Benze	ne	OSHA 07; GC/FID	
OMMENTS:	he method being repo	rted is not on you	ur laboratory's current AIHA s	cope of accreditation,	please state th	at in your report.	
**Please	provide an uncertaint	y statement in ac	ccordance with AIHA LOAP p	olicy document Section	on 2A.5.4.3. Ne	ed results by 10/23/13	Data (Time
Chain of Custody	Print Name	4.0	1	Signature			Date/Time /15/13 0921
Relinquished by I AB	Cameron Kenne	dy	1/	76		10	15/13 0921

David Foris

	0	BV - Novi	D 17	01-11-V	223722	Invales Ta	Janua Ci	icaon
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www.galsonlabs	.com	Site Name :			Project: L	302378	Sampled By :	Client
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#### **Attachment 2**

Locations of Perimeter Air Monitoring Stations

# Perimeter Air Monitoring Station Locations - Week 1 to Week 10



Image shows the site and surrounding area with the location of the four perimeter air monitoring stations.

## Perimeter Air Monitoring Station Locations - Week 11 to Week 14



Image shows the site and surrounding area with the location of the four perimeter air monitoring stations.

## Perimeter Air Monitoring Station Locations - Week 15 to Week 34



Image shows the site and surrounding area with the location of the four perimeter air monitoring stations.

## Perimeter Air Monitoring Station Locations - Week 35 to Week 45



Image shows the site and surrounding area with the location of the three perimeter air monitoring stations.

# Perimeter Air Monitoring Station Locations - Week 46 to Week 54



Image shows the site and surrounding area with the location of the three perimeter air monitoring stations.



#### **Attachment 3**

Health and Safety Audit Findings and Response Actions

Attachment 3 - ARCADIS Corporate Health & Safety Audit Findings, Action Items and Response Actions

Category	Findings	Comments	Priority	Action Item	Response Actions
Overview	Is the HSCP complete?	Need to clarify PPE during Excavation Oversight	7 Days	Update HSCP to cover Level C PPE during excavation oversight	Level C PPE addressed in JSA for excavation oversight and in ARCADIS Level C HSCP Supplement.
Overview	Did HSCP writer or PM determine Emergency Medical Service response time to site to determine need for staff first aid/CPR training?	Need to determine EMS response time to ensure enough staff are CPR trained.	7 Days	Need to determine EMS response time to ensure enough staff are CPR trained.	K Held spoke to representatives from Sayreville Emergency Squad & Dispatcher Dougherty at Sayreville PD. Confirmed they are both familiar with the site address, location and activities. Response time assured at <10min by PD and that an ambulance should be on-site in <10 min under typical conditions. In accordance with the HSCP at least two personnel from ARCADIS have current CPR and First Aid Training. Two personnel from CEI also have current training.
Overview	Does HSCP include STAR or TCP?	Remove Vegetation at exit to site by railroad crossing. Unable to see oncoming trains from the right.	7 Days	Remove vegetation to the right at egress railroad stop.	Project submittal documents included TCP which has been reviewed by project management team C King notified ICE to notify appropriate agents of the railroad of this condition. Railroad representatives attended a site meeting in December at which time management team reminded railroad managers of vegetation concern. Vegetation was controlled near site access by railroad contractor during spring season.
Overview	Has there been any TIPs or other Conformance Assessments conducted on the project? If so, were solutions addressed and corrective actions implemented?	Need to enter TIP's, Near Misses, and contractor incidents into 4-Sight	Immediate	Need to enter TIP's, Near Misses, and contractor incidents into 4-Sight	TIPs, near misses and incidents were entered into 4-Sight with 76 TIPs, 6 near miss reports and four incident reports. Reports are summarized in the Closeout Report and project dashboard in 4-Sight.
Chemical Material Storage	Are flammable/ combustible liquids in approved safety cans and contents? Labeled?	Labeled containers need to be stored in Flammable and Acid cabinets	7 Days	Labeled containers need to be stored in Flammable and Acid cabinets	Site acquired bench-sized flammable liquid and acid storage cabinets located in the/sampling equipment room of the ARCADIS trailer.

Category	Findings	Comments	Priority	Action Item	Response Actions
Chemical Material Storage	Are compressed gas cylinders properly stored? Valve protection caps in place?	Secure cylinders to ensure they do not tip over and/or remove cylinders no longer in use.	Immediate	Secure cylinders to ensure they do not tip over and/or remove cylinders no longer in use.	CEI, acquired two cylinder racks and has been using nylon come-along straps to secure cylinders that are removed from the rack for service in the field. One location, near the foam machine, continued to use wires as a specific preference of Laborers operating foam machine until Area K was completed.  Subsequent to Area K all cylinders were stored in racks with nylon retention straps.
Emergency Response	Are staff aware of the communication procedures in the case of an emergency (e.g., who to contact, how to contact them, and directing emergency response to the site)?	Where are alarm stations/ air horn stations? Designate locations with air horns.	Immediate	Designate locations for air horns	K.Held reviewed procedure for summoning site and municipal emergency response at morning tailgate and site orientation with review of site map showing locations of air horns and fire extinguishers. W. Kizer, T.Gulya & T.Van Riper (CEI personnel) also reviewed emergency contact and emergency response information during morning meetings.
Emergency Response	Are monthly first aid kit checks completed and documented?	Inspection completed but not documented	Immediate	Document inspections	A clipboard with the first aid kit item checklist was posted near first aid supplies. Additional clipboards for vehicle inspections were posted on the same wall. Inspection entries spanned the October 2013May 2014
Excavation Trenching	Are excavations, adjacent areas, and protective systems inspected and conditions documented by a Competent Person: Daily prior to the start of work and after any occurrence that could increase the hazard?	No documentati on	7 Days	Document inspections	CEI - documents daily inspection by competent person on work Zone Air monitoring report. T. Van Riper completes inspection, confers with SSO and inspection is documented by SSO. Report is included with Daily Quality Control Report.  ARCADIS also inspected excavations and oversight of the CEI inspection process prior to entries.
Excavation Trenching	Are barriers (guardrail system, fences, or barricades) provided at the edge of an excavation 6 feet (1.8 m) or more in depth when the excavations are not readily seen because of plant growth or other visual barrier?	Exterior site fence is only barricade to prevent fall in	7 Days	Review excavation openings, ensure they are protected or clearly identified	Extensive ribbon flagging system was added to excavation boundaries and maintained throughout the course of the project. Ribbon flagging was wrapped around driven fence posts spaced approximately 25-ft apart. 500-1,000 ft. of perimeter flagging was typical during the Oct 2013-Feb 2014 time period.

Category	Findings	Comments	Priority	Action Item	Response Actions
Excavation Trenching	For those excavations in which employees will not be entering and there is no protective system in place, are employees maintaining a safe distance away from the edge of the excavation? Informational Note: In some instances, an excavation will not have any protective systems in place when employees will not be entering into the excavation. Even if employees are not entering into this type of excavation, a competent person should be consulted to establish a safe zone distance away from the edge of any open excavation. Standing at the edge of an excavation places an employee at risk of falling into the excavation, thereby subjecting themselves to the hazard of excavation/trench collapse, which then triggers the requirement for protective system use. To eliminate the potential for employee exposure to excavation/trench collapse, the general guidance would be for employees to remain 6 feet or more away from the edge of any excavation.	Entry into excavation is limited to CEI. Should include rescue harness or basket.	7 Days	Ensure rescue plan and equipment are in place	Flagging system around excavations was established and maintained as described above. Safe access distance > 2 ft. from excavation edge was maintained. CEI maintained field recovery stretcher on site with designated extraction team.

Category	Findings	Comments	Priority	Action Item	Response Actions
Excavation Trenching	Are employees protected from cave-ins when entering or exiting excavation?	No shoring or benching used	7 Days	Ensure rescue plan and equipment are in place	Shoring and benching were used in accordance with the approved Excavation Plan and OSHA Excavation Standard. Personnel are not required to have rescue harness in areas accessible to heavy equipment such as sufficient ramp for dozer or roller to get to excavation bottom. Rescue harness and lanyard used for entry into areas not readily accessible by ramp were stored in a C-box
Excavation Trenching	If excavation is a trench greater than 5 feet in depth, is trench box or other wall supporting equipment being used?	No shoring or benching used	7 Days	Ensure rescue plan and equipment are in place	Trench boxes were used in Cells H, I, and K and sheet driven walls were used in Cells AD and AE as described in the approved excavation plan. All excavation sidewalls were sloped according to plan design and monitored with GPS-based surveying inside excavator.
Excavation Trenching	If the excavation is over 5 feet in depth, not entirely in stable rock and employees will enter, is there a protective system in place? Identify Type of Protective System in Place:	No protection in place	7 Days	Ensure rescue plan and equipment are in place	Excavations were sloped or bench to design specifications, typically 45 degrees. In some locations trench boxes or sheet piling were used. Rescue equipment was maintained in a C-box.
Excavation Trenching	For excavations exceeding 20 feet in depth, has a Registered Professional Engineer designed the protective system?	Unable to determine excavation depth	Corrected		Excavation plan included areas with depth in excess of 20-ft. Professional Engineer approved excavation plan including all slopes as well as protective systems used where excavation was > 20-ft. depth.
Excavation Trenching	Are materials and equipment that are used for protective systems routinely inspected and in good condition?	No inspections noted	7 Days	Ensure rescue plan and equipment are in place	Materials and equipment used manufactured systems for sidewall protective systems, such as trench boxes, and sheeting were designed by PE. All equipment was inspected by CEI competent person and ARCADIS CQC and documented. Each component is inspected for proper installation and stability. Procedures are documented in the Site Excavation Inspection and Daily Activities Report.

Category	Findings	Comments	Priority	Action Item	Response Actions
Excavation Trenching	Are protective systems installed without exposing employees to hazards of cave-ins, collapses, or threat of being struck by materials or equipment?	As per 29CFR 1926.51(j)	7 Days	Ensure rescue plan and equipment are in place	Trench boxes were slide rail systems that were installed prior to excavating soil. Personnel were not inside boxes while excavation was underway. Sheet driven wall was also installed prior to excavation. Interior was divided into discreet sections. Personnel were prohibited from standing or working inside any section while excavation was underway inside the same section.
Excavation Trenching	Safety harness and lifeline are used and individually attended when entering bell-bottom pier holes, or other similar deep and confined footing excavations?	Certain types of excavations require use of harness and lifelines as per 29CFR1926. 651(g) (2)(ii)	7 Days	Ensure rescue plan and equipment are in place	There were no pier holes or footing excavations.
Ladders	Was the correct type of ladder selected (e.g. step, extension)?	Wooden ladders can absorb COC when used in roll offs	7 Days	Recommend reviewing use of wooden ladders and replacing.	There was considerable discussion on the type(s) of ladders permitted for use and requirements for only using OSHA rated ladders. Personnel utilizing ladders were primarily laborers and dock workers. They were included in discussions and they expressed preferences and their rationale for their preferences. Multiple types of ladders were available for each application requiring ladders, including wood ladders which were preferred by some individuals for some applications, particularly for climbing into rail cars. Concerns for wood absorbing site contaminants was discussed. Personnel always went through personnel decontamination which included boot wash, outer glove disposal and disposal of coveralls. Weekly ladders inspections were conducted and documented. Some ladders were destroyed as a result of inspections. There were no incidents or close calls that involved ladders. Use of ladders was inspected daily.
Ladders	Was the ladder inspected prior to use? (e.g., if a wood ladder is used, is the ladder in good working condition (no cracks, damaged support structures, loose steps, free of	Completed but not documented	7 Days	Document inspections	Weekly inspections were documented by CEI SSO from October 2013 through May 2014. ARCADIS observed inspections and monitored log book.

Category	Findings	Comments	Priority	Action Item	Response Actions
	grease and oil, etc.)?				
Ladders	Are the bottom feet of a step ladder treated with an insulating non- slip material?	Wooden ladders have no non-slip footing	7 Days	Recommend reviewing use of wooden ladders and replacing.	Ladders were inspected weekly including wood ladders. Wood ladders were preferred by selective group accessing rail cars and later by dockworkers for access to bottom of sheet driven wall. These groups were informed of non-slip footing and potential shortcomings of wood ladders. SSO was observed during weekly inspections. Ladder users took part in the inspections. OSHA approval of wood ladders, ladder condition, inspection process, and training were monitored by ARCADIS who made point of using the same ladders as CEI personnel. Findings and recommendations were discussed often. Rejected ladders were destroyed.
Ladders	If using an extension ladder, was the ladder placed such that the horizontal distance between the top support and the foot of the ladder is equivalent to 1/4 of the working length of the extension ladder?	Unable to achieve proper ladder angle when using ladders in roll-offs	7 Days	Recommend reviewing use of wooden ladders and replacing.	CEI acquired a wider selection of ladders including: aluminum extension ladders, fiberglass ladders and wood ladders. As noted above, personnel using ladders expressed preferences. All personnel were indoctrinated on use and routine inspections. All ladders had OSHA certification with weight restrictions. Ladder users were questioned about the OSHA weight limit for the ladders they were using as well as strategies for securing the top and ensuring stable footings.
Remediation Systems	Does the building have adequate emergency exit signage?	Missing signage. Install Exit signs	7 Days	Install proper signage	ARCADIS installed EXIT sign in WWTP and NOT AN EXIT sign installed in trailer on false door.
Remediation Systems	Is housekeeping sufficient (floors dry, no trash or filters lying around)?	Wet floors	7 Days	Review leaks and repair as needed	CEI - Maintains dry floors in WWTP and other interior locations. ARCADIS conducts frequent inspections. Inspections were entered into weekly health and safety site inspection form.
Remediation Systems	Is equipment in good condition?	Minor leaks noted. System is located in 2nd containment	7 Days	Review leaks and repair as needed	CEI - Leaks are repaired and system is maintained with licensed WWTP operators and Local Labor.

Category	Findings	Comments	Priority	Action Item	Response Actions
Remediation Systems	If hearing protection is required are signs posted?	Missing signage	7 Days	Install proper signage	HEARING PROTECTION REQUIRED signage was posted inside WWTP.
Vehicle Safety	Have weekly "walkarounds" been completed and documented?	Completed but not documented	Immediate	Document Inspections	Vehicle inspection forms are on clipboards in the PPE/supply room. Weekly inspections are conducted and documented.
Vehicle Safety	First Aid Kit present in vehicle?	Not present	Immediate	PPE Grab Bag	First aid Kit and Fire Extinguisher were kept in site vehicles and the presence and condition of these items were part of weekly vehicle inspections.
Vehicle Safety	Fire Extinguisher present in vehicle?	Not present	Immediate	PPE Grab Bag	Fire extinguisher & First Aid Kit was present in one vehicle, which was offsite at the time of the audit. Extinguisher and first aid kit was added to second site vehicle and included as part of the weekly vehicle inspections.
Vehicle Safety	Orange Strobe/Oscillating Light present?	Not present	Immediate	PPE Grab Bag	Project management team investigated purchase and practical considerations (planned use, and maintenance requirements). Team decided there were no planned occasions for use of oscillating light with the ARCADIS site vehicles. As a result the lights were not purchased. CEI maintained an oscillating light on-site in case an escort was needed.
Vehicle Safety	Are insurance card(s) present and valid?	Not present	Immediate	PPE Grab Bag	Missing insurance cards was obtained from Enterprise. Presence of current insurance and registration was verified during weekly inspections.
Vehicle Safety	Is the vehicle equipped with a fire extinguisher?	Not present	Immediate	PPE Grab Bag	Both vehicles were outfitted with fire extinguishers. Prior to audit, only one vehicle had a fire extinguisher.